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U. S. DEPARTMENT OF COMMERCE NATIONAL BUREAU OF STANDARDS Letter Circular

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11	T 6	OP	The determination of chromium and its separation from vanadium in steels. J. R. Cain. Tech. Pap. BS, T6(1911).
12	T 8	OP	A rapid method for the determination of vanadium in steels, ores, etc., based on its quantitative inclusion by the phosphomolybdate precipitate. J. R. Gain and J. C. Hostetter. Tech. Pap. BS, T8 (1911).
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27	S254	OP A study of the quality of platinum ware. G. K. Burgess and P. D. Sale. Bul. BS, 12, 289 (1915-16).
28		On a supposed allotropy of copper. G. K. Burgess and I. N. Kellberg. J. Wash. Acad. 5, 657 (1915).
29	T53	.20 An investigation of fusible tin boiler plugs.
70	Ct A7	G. K. Burgess and P. D. Merica. Trans. Am. Inst. Met. (1915-21). Tech. Pap. BS, T53 (1915).
30	S£43	OP The emissivity of metals and oxides. III. The total emissivity of platinum and the relation between total emissivity and resistivity. P. D. Foote. Bul. BS, 11, 607 (1915).
31		Magnetic studies of mechanical deformation in certain ferromagnetic metals and alloys. H. Haneman and
32		P. D. Merica. Bul. Am. Inst. Chem. Eng. p. 2371 (1915). Failure of structural brass. P. D. Merica and R. W.Woodward Trans. Am. Inst. Met. p. 298 (1915).
33		Thermometry, pyrometry and heat conductivity. G. K. Burgess. Standard Handbook Elec. Eng. (1916).
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44	T60	OP	Microstructural changes accompanying the annealing of cast bronze. H. S. Rawdon. Tech. Pap. BS, T60 (1916).
45			Note on the occurrence and significance of twinned crystals in electrolytic copper. H. S. Rawdon. J. Am. Inst. Met. 10, 198 (1916).
46			Report on ladle-test steel ingots. H. S. Rawdon and J. R. Cain. Proc. Am. Soc. Testing Materials 16, 129 (1916).
47	T91	OP	Temperature measurements in Bessemer and open-hearth practice. G. K. Burgess. Pech. Pap. BS, T91 (1917).
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50			The embrittling action of sodium hydroxide on mild steel. P. D. Merica. Chem. Met. Eng. 16, 496 (1917).
51			Notes on the thermocouple nichrome constantan. R. W. Woodward and T. R. Hanison. Chem. Met. Eng. 16, 647 (1917).
52	C66	\$0.05	Standard samples of thermometric fixed points. Cir. BS, C66 (1917).
53	C76	ÔР	Aluminum and its light alloys. P. D. Merica. Cir. BS, C76 (1918). Chem. Met. Eng. 19, 135, 200, 329, 587, 635 (1918). (C76 now superseded by C346, \$1.10)
54	T97	.05	Some unusual features in the microstructure of wrought iron. H. S. Rawdon. Trans. Am. Inst. Min. Met. Eng. 58, 493 (1918). Tech. Pap. BS, T97 (1918).

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55	T103	OP	Typical cases of the deterioration of Muntz metal by selective corresion. H. S. Rawdon. Tech. Pap. BS, T103 (1918). J. Am. Inst. Met. 11, 12, 148 (1918).
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58			Pemperature measurements in steel furnaces. G.K.Burgess. Jearbook Am. Iron Steel Inst. p. 427 (1919).
59			Science and the after-war period. G. K. Burgess. Sci. Monthly, Feb. 1919; J. Wash. Acad. Sci. <u>9</u> , 57 (1919).
60	F109	OP	Conservation of tin in bronzes, bearing metals and solders. G. K. Burgess and R. W. Woodward. Tech. Pap. BS, Flo9 (1919). Trans. Am. Inst. Min. Met. Eng. 60, 162 (1919).
61			Recent metallurgical work at the Bureau of Standards. G. K. Burgess. Blast Furnace & Steel Plant III (1), 130; (2), 195 (1919).
62			Report of Ladle-test ingot investigation. Appendix of Report of Com. A-1. J. R. Cain and H. S. Rawdon. Proc. Am. Soc. Festing Materials 19 (1), 154 (1919).
63	SZ50	OP	Equilibrium conditions in the system carbon, iron oxide and hydrogen in relation to the Ledebur method for determining oxygen in steel. J. R. Cain. BS Sci. Pap. 15, 353 (1919-20).
64			Rapid determination of carbon in steel by the barium-carbonate titration method. J. R. Cain and L. C. Maxwell. J. Ind. Eng. Chem. 10, 520 (1919).
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6 8	S346	\$0.05	Oxygen content by the Ledebur method of acid Bessemer steels deoxidized in various ways. J. R. Cain and E. Pettijohn. BS Sci. Pap. 15, 259 (1919-20).
69			Determining gases in steel and the deoxidization of steel. J. R. Cain. Bul. Am. Inst. Min. Met. Eng. 152, 1309 (1919). Trans. Am. Inst. Min. Met. Eng. 62, 209 (1920).

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			303 (1920).
71			Comparative tests of Palau and Rhotanium ware as substitutes for platinum laboratory utensils. L.J.Gurevich and E. Wichers. J. Ind. Eng. Chem. 11, 570 (1919).
72			Tin fusible boiler plug manufacture and testing. L. J. Gurevich and J. S. Hromatko. Bul. Am. Inst. Min. Met. Eng. 152, 1351 (1919). Trans. Am. Inst. Min. Met. Eng. 64, 227 (1920).
75			Decomposition of metals. A. I. Krynitsky. Chem. Met. Eng. 20, 277, 421 (1919).
74			Experience with a 91:9 copper-aluminum alloy.
75	S337	OP	A. I. Krynitsky. Chem. Met. Eng. 21, 770 (1919). Constitution and metallography of aluminum and its
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76	S347	OP	1031 (1919). Heat treatment of duralumin. P. D. Merica,
10	5011	01	R. G. Waltenberg and H. Scott. BS Sci. Pap. <u>15</u> , 271 (1919-20). Bul. Am. Inst. Min. Met. Eng. <u>150</u> , 913 (1919).
77	S336	OP	A simplification of the inverse rate method for thermal analysis. P. D. Merica. BS Sci. Pap. 15, 101 (1919-20). Bul. Am. Inst. Min. Met. Eng. 151, 1021 (1919).
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84			Microstructure of flaky steel. H. S. Rawdon. Bul. Am. Inst. Min. Met. Eng. No. 146, pp. 185, 792, 804, 969 (1919); Trans. Am. Inst. Min. Met. Eng. 62, 246 (1920)
85	S343	\$0.05	Location of flaws in rifle steel by magnetic analysis. R. L. Sanford and W. B. Kouwenhoven. BS Sci. Pap. 15, 219 (1919-20).
86	S335	.05	Effect of rate of temperature change on the transformations in an alloy steel. H. Scott. BS Sci. Pap. <u>15</u> , 91 (1919-20). Bul. Am. Inst. Min. Met. Eng. <u>146</u> , 157 (1919). Trans. Am. Inst. Min. Met. Eng. <u>62</u> , 669 (1920)
87	S348	.05	Use of a modified Rosenhain furnace for thermal analysis. H. Scott and J. R. Freeman, jr. BS Sci. Pap. 15, 317 (1919-20). Bul. Am. Inst. Min. Met. Eng. 152, 1429 (1919).
38			Tests of clay for foundry uses. H. F. Staley. Trans. Am. Fdymen's Assn. 28, 465 (1919).
89			Physical properties of certain lead-zinc bronzes. H. F. Staley and C. F. Karr. Bul. Am. Inst. Min. Met. Eng. 153, 2485 (1919).
90			Metals for pyrometer standardization. C. W. Waidner and G. K. Burgess. Bul. Am. Inst. Min. Met. Eng. <u>152</u> , 1511 (1919).
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92			Governmental research. G. K. Burgess. Trans. Royal Can. Inst. Toronto V, XIII, No. 1 (1920). Sci. Monthly, p. 341 (1920).
93			The microscope and the heat treatment of steel. G. K. Burgess. Yearbook Am. Iron & Steel Inst. p.154 (1920).
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100	1100	Or	E. C. Groesbeck. Tech. Pap. BS, T163 (1920). Proc. Am.
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			carbon steels. S. C. Langdon and M. A. Grossman.
105	0404	0.5	Trans. Am. Electrochem. Soc. 37, 543 (1920).
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104			Nature of the defects revealed by the deep etching of
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106	S377	.05	The intercrystalline brittleness of lead. H. S. Rawdon.
100	2011	•00	BS Sci. Pap. 16, 215 (1920). Bul. Am. Inst. Min. Met.
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107			Contemporary foreign opinions on sulphur and phosphorus
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108			Notes on electric welding. H. S. Rawdon. Mech. Eng.
109	S397	3.0	42, 567 (1920); Elec. Railway Eng. 11, 441 (1920).
109	1660	.10	A study of the relation between the Brinell Hardness and the grain size of unnealed carbon steels. H. S. Rawdon
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			and E. C. Groesbeck. Chem. Mot. Eng. 23, 277 (1920).
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133			Motion pictures in the physical testing laboratory.
134			H. J. French. Chem. Met. Eng. 24, 131 (1921). Review of recent Japanese metallurgical investigations.
794			H. J. French. Chem. Met. Eng. <u>24</u> (Microstructure of
			chromium steels) 703, (Recent work on chromium-tungsten
			steels) 573, (Structure of tungsten steels) 745 (1921).
135			Elements of the heat treatment of steel. H. J. French.
136			Am. Mach. <u>55</u> , 907, 960 (1921). Artificial seasoning of steels. H. J. French. Chem. Met.
100			Eng. 25, 155 (1921); Am. Mach. 55, 768 (1921).
137	T206	\$0.15	The effect of heat treatment upon the mechanical proper-
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